

## PATENT

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**III. Remarks****A. Amendments to the Claims**

Claim 1 has been amended to recite that the optical detection modifying means “fixes the position of an edge closer to said door of said optical detection zone and moves an edge remote from said door of said optical detection zone in a direction perpendicular to said door to thereby increase or decrease a dimension of said optical detection zone in the direction perpendicular to said door.” The amendment is supported by illustrations in Figures 1, 8 and 10, for example, and the description set forth in Paragraphs [0049] to [0053] of the specification. In Figures 1, 8 and 10, an optical detection zone 42 is shown having a portion 42a having an edge closest to the door 4 (which corresponds to the edge of zone 42) that is fixed at the same location close to the door 4. In Figure 8, optical detection zone 42 is shown including not only the optical detection zone 42a shown in Figure 1, but also the optical detection zone 42b at a location adjacent to the edge of the zone 42a remote from the door 4. Further, in Figure 10, although both optical detection zones 42a and 42b are shown to form the optical detection zone 42, the detection zone 42b is shown being spaced farther from the door 4 than in Figure 8. Thus, the edge of the optical detection zone 42b remote from the door 4, which is the edge of the optical detection zone 42 remotest from the door 4, has moved in the direction perpendicular to the door 4 from the position in Figure 8. Likewise, in comparing Figures 1 and 8, the edge of zone 42 distal from door 4 has moved. In this manner, the dimension of the optical detection zone 42 in the direction perpendicular to the door 4 can be increased or decreased.

Claim 2 has been amended to specifically recite an arrangement of the optical detection zone modifying means. The amendments to Claim 2 are supported by the illustrations in, for example, Figures 3 and 4 and the description set forth in Paragraphs [0044] through [0047]. As shown in Figure 4, the reflecting means 28 and light-collecting means 26 are provided in association with the light emitters 24a through 24g, and the reflecting means 36 and light-collecting means 34 are provided in association with the light receivers 32a through 32g. As shown in Figure 3, the reflecting means 28 and light-collecting means 26 are united, and the

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reflecting means 36 and light-collecting means 34 are also united. Further, as shown in Figure 4, the light-collecting means 26 and 34 are coupled together with the coupling member 38. Thus, the light-collecting means and reflecting means for the light emitters and the light-collecting means and reflecting means for the light receivers are united and rotated synchronously.

Claim 6 has been amended to correct two obvious errors.

Claim 8 has been amended to recite an environmental condition sensor. The amendment is supported by, for example, Paragraphs [0103]-[0104] of the Specification and Figure 24.

**B. Rejection under 35 U.S.C. §§ 102 and 103**

The Action rejects Claim 1 as being anticipated by Activ8 Three On User's Guide and Activ8 Three Technical Specification Sheet ("Activ8") under 35 U.S.C. § 102(a). Applicant respectfully disagrees.

According to Active8, to adjust the angle of the "IR presence sensor" shown on Page 3 of the Activ8 reference, a single screw is rotated in a clockwise or counterclockwise direction for simply adjusting the angle of the curtains. Judging from the leftmost one of the figures numbered "7" on page 3 of this reference, the two curtains are simultaneously subjected to angle adjustment. In contrast, according to amended Claim 1 of the present application, the position of the edge of the optical detection zone nearer to the door is not changed, and the position of the edge remote from the door is changed. Such an arrangement is neither disclosed nor suggested in the Activ8 reference. Accordingly, it is submitted that amended Claim 1 is not anticipated by the cited reference and is allowable thereover.

The Action also rejects Claim 2 as being obvious from Activ8 in view of U.S. Patent No. 4,317,117 to Chasek. Claim 2 depends from Claim 1 and is, therefore, allowable over the cited references for at least the reasons set forth above in connection with Claim 1. Still further, it is submitted that Claim 2 is independently allowable over the art of record for at least the following reasons.

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Chasek discloses the use of an adjustable parabolic reflector and an illuminator to focus infrared rays at the focal point of the parabolic reflector. On the other hand, amended Claim 2 employs an arrangement in which light-collecting means and reflecting means are provided for the light emitter, and also light-collecting means and reflecting means are provided for the light receiver, the light-collecting means and reflecting means of the light emitter and receiver are united together to enable them to be rotated synchronously. Such an arrangement is neither disclosed nor suggested by Chasek nor in Activ8. As the combination of the references does not teach each feature of amended Claim 2, reconsideration and withdrawal of the rejection of Claim 8 are respectfully requested.

The Action also rejects Claim 8 as being obvious from Activ8 in view of U.S. Patent No. 5,914,655 to Clifton. According to Clifton, rainfall is detected based on data supplied by plural or all intruder sensors. It is as if, in terms of the present invention, when the radio-wave transmitting-receiving module 8 detects rainfall and, at the same time, the light receiver 20 detects the rainfall, the detection signals from the module 8 and the light receivers are ignored. In fact, however, according to amended Claim 8, an environmental sensor is provided for detecting an environmental condition around the door. The recited invalidating means then makes a result of a detection in the second detection zone invalid when an environmental condition detection made by the recited environmental condition sensor is judged to affect the result of the detection. Clifton neither discloses nor suggests the use of such an environmental sensor or an invalidating means responsive to an environmental sensor. As the combination of the references does not teach each feature of amended Claim 8, reconsideration and withdrawal of the rejection of Claim 8 are respectfully requested.

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IV. Conclusion

In view of the foregoing remarks and amendments, Applicant(s) submit that this application is in condition for allowance at an early date, which action is earnestly solicited.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any excess payment that may be associated with this communication to deposit account 04-1679.

Respectfully submitted,

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